SEQUENCE LISTING

<110> Bristol-Myers Squibb Company Kornacker, Michael												
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Tyr Tyr Ala Leu His His Trp Pro Phe Pro Asp Leu Leu Cys Gln Thr 85 90 95

Thr Gly Ala Ile Phe Gln Met Asn Met Tyr Gly Ser Cys Ile Phe Leu 100 105 110

Met Leu Ile Asn Val Asp Arg Tyr Ala Ala Ile Val His Pro Leu Arg 115 120 125

Leu Arg His Leu Arg Arg Pro Arg Val Ala Arg Leu Leu Cys Leu Gly 130 135 140

Val Trp Ala Leu Ile Leu Val Phe Ala Val Pro Ala Ala Arg Val His 145 150 155 160

Arg Pro Ser Arg Cys Arg Tyr Arg Asp Leu Glu Val Arg Leu Cys Phe 165 170 175

Glu Ser Phe Ser Asp Glu Leu Trp Lys Gly Arg Leu Leu Pro Leu Val 180 185 190 Leu Leu Ala Glu Ala Leu Gly Phe Leu Leu Pro Leu Ala Ala Val Val 195 200 205

Tyr Ser Ser Gly Arg Val Phe Trp Thr Leu Ala Arg Pro Asp Ala Thr 210 215 220

Gln Ser Gln Arg Arg Lys Thr Val Arg Leu Leu Leu Ala Asn Leu 225 230 235 240

Val Ile Phe Leu Cys Phe Val Pro Tyr Asn Ser Thr Leu Ala Val 245 250 255

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Asp Arg Val Arg Gly Val Leu Met Val Met Val Leu Leu Ala Gly Ala 275 280 285

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Ala Thr Asn Gly Thr Arg Ala Ala Leu Ala Gln Ser Glu Arg Ser Ala 325 330 335

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35 40 45	
Gin Tie Ive Ala Arg Aen Clu Iou Clu Val Tur Iou Cue Aen Iou Thr	
Gln Ile Lys Ala Arg Asn Glu Leu Gly Val Tyr Leu Cys Asn Leu Thr 50 55 60	
Val Ala Asp Leu Phe Tyr Ile Cys Ser Leu Pro Phe Trp Leu Gln Tyr 65 70 75 80	
75	

- Val Leu Gln His Asp Asn Trp Ser His Gly Asp Leu Ser Cys Gln Val 85 90 95
- Cys Gly Ile Leu Leu Tyr Glu Asn Ile Tyr Ile Ser Val Gly Phe Leu 100 105 110
- Cys Cys Ile Ser Val Asp Arg Tyr Leu Ala Val Ala His Pro Phe Arg 115 120 125
- Phe His Gln Phe Arg Thr Leu Lys Ala Ala Val Gly Val Ser Val Val 130 135 140
- Ile Trp Ala Lys Glu Leu Leu Thr Ser Ile Tyr Phe Leu Met His Glu 145 150 155 160
- Glu Val Ile Glu Asp Glu Asn Gln His Arg Val Cys Phe Glu His Tyr 165 170 175
- Pro Ile Gln Ala Trp Gln Arg Ala Ile Asn Tyr Tyr Arg Phe Leu Val 180 185 190
- Gly Phe Leu Phe Pro Ile Cys Leu Leu Leu Ala Ser Tyr Gln Gly Ile 195 200 205
- Leu Arg Ala Val Arg Arg Ser His Gly Thr Gln Lys Ser Arg Lys Asp 210 215 220
- Gln Ile Gln Arg Leu Val Leu Ser Thr Val Val Ile Phe Leu Ala Cys 225 230 235 240
- Phe Leu Pro Tyr His Val Leu Leu Val Arg Ser Val Trp Glu Ala 245 250 255
- Ser Cys Asp Phe Ala Lys Gly Val Phe Asn Ala Tyr His Phe Ser Leu 260 265 270
- Leu Leu Thr Ser Phe Asn Cys Val Ala Asp Pro Val Leu Tyr Cys Phe 275 280 285
- Val Ser Glu Thr Thr His Arg Asp Leu Ala Arg Leu Arg Gly Ala Cys 290 295 300

Leu Ala Phe Leu Thr Cys Ser Arg Thr Gly Arg Ala Arg Glu Ala Tyr 310 315

Pro Leu Gly Ala Pro Glu Ala Ser Gly Lys Ser Gly Ala Gln Gly Glu 325 330

Glu Pro Glu Leu Leu Thr Lys Leu His Pro Ala Phe Gln Thr Pro Asn 340 345

Ser Pro Gly Ser Gly Gly Phe Pro Thr Gly Arg Leu Ala 355 360

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Gln Ile Lys Ala Arg Asn Glu Leu Gly Val Tyr Leu Cys Asn Leu Thr

Val Ala Asp Leu Phe Tyr Ile Cys Ser Leu Pro Phe Trp Leu Gln Tyr 70

Val Leu Gln His Asp His Trp Ser His Asp Asp Leu Ser Cys Gln Val 90

Cys Gly Ile Leu Leu Tyr Glu Asn Ile Tyr Ile Ser Val Gly Phe Leu

Cys Cys Ile Ser Ile Asp Arg Tyr Leu Ala Val Ala His Pro Phe Arg

Phe His Gln Phe Arg Thr Leu Lys Ala Ala Met Gly Val Ser Ala Leu

130 135 140

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Glu	Val	Val	Glu	Asp 165	Ala	Asp	Arg	His	Arg 170	Val	Cys	Phe	Glu	His 175	Tyr	
Pro	Leu	Glu	Pro 180	Arg	Gln	Arg	Gly	Ile 185	Asn	Tyr	Tyr	Arg	Phe 190	Leu	Val	
Gly	Phe	Leu 195	Phe	Pro	Ile	Cys	Leu 200	Leu	Leu	Ala	Ser	Tyr 205	Arg	Gly	Ile	
Leu	Arg 210	Ala	Val	Arg	Arg	Ser 215	His	Gly	Thr	Gln	Lys 220	Ser	Arg	Lys	Asp	
Gln 225	Ile	Gln	Arg	Leu	Val 230	Leu	Ser	Thr	Val	Val 235	Ile	Phe	Leu	Ala	Cys 240	
			_	245			Leu		250	_			-	255		
			260				Ile	265					270			
		275				_	Val 280					285	_	_		
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Val Phe Ile Leu Gly Leu Ile Thr Asn Ser Val Ser Leu Phe Val Phe 50 55 60

Cys Phe Arg Met Lys Met Arg Ser Glu Thr Ala Ile Phe Ile Thr Asn 65 70 75 80

Leu Ala Val Ser Asp Leu Leu Phe Val Cys Thr Leu Pro Phe Lys Ile $85 \hspace{1cm} 90 \hspace{1cm} 95$

Phe Tyr Asn Phe Asn Arg His Trp Pro Phe Gly Asp Thr Leu Cys Lys
100 105 110

Ile Ser Gly Thr Ala Phe Leu Thr Asn Ile Tyr Gly Ser Met Leu Phe 115 120 125

Leu Thr Cys Ile Ser Val Asp Arg Phe Leu Ala Ile Val Tyr Pro Phe 130 135 140

Arg Ser Arg Thr Ile Arg Thr Arg Arg Asn Ser Ala Ile Val Cys Ala 145 150 155 160

Gly Val Trp Ile Leu Val Leu Ser Gly Gly Ile Ser Ala Ser Leu Phe 165 170 175

Ser Thr Thr Asn Val Asn Asn Ala Thr Thr Val Cys Phe Glu His Tyr 180 185 190

Pro Leu Glu Pro Arg Gln Arg Gly Ile Asn Tyr Tyr Arg Phe Leu Val 195 200 205 Gly Phe Leu Phe Pro Ile Cys Leu Leu Ala Ser Tyr Arg Gly Ile 210 215 220 Leu Arg Ala Val Arg Arg Ser His Gly Thr Leu Ser Gln Ile Gly Thr 225 230 235 240 Asn Lys Lys Val Leu Lys Met Ile Thr Val His Met Ala Val Phe 245 250 Val Val Cys Phe Val Pro Tyr Asn Ser Val Leu Phe Leu Tyr Ala Leu 260 265 Val Arg Ser Gln Ala Ile Thr Asn Cys Phe Leu Glu Arg Phe Ala Lys 275 Ile Met Tyr Pro Ile Thr Leu Cys Leu Ala Thr Leu Asn Cys Cys Phe Asp Pro Phe Ile Tyr Tyr Phe Thr Leu Glu Ser Phe Gln Lys Ser Phe 310 Tyr Ile Asn Ala His Ile Arg Met Glu Ser Leu Phe Lys Thr Glu Thr 330 Pro Leu Thr Thr Lys Pro Ser Leu Pro Ala Ile Gln Glu Glu Val Ser Asp Gln Thr Thr Asn Asn Gly Gly Glu Leu Met Leu Glu Ser Thr Phe 360 <210> 11 <211> 370 <212> PRT <213> Homo sapiens <400> 11 Met Gly Asp Arg Arg Phe Ile Asp Phe Gln Phe Gln Asp Ser Asn Ser

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Val Asp Asp Ser Phe Lys Tyr Asn Leu Asn Gly Ala Val Tyr Ser Val Val Phe Ile Leu Gly Leu Ile Thr Asn Ser Val Ser Leu Phe Val Phe Cys Phe Arg Met Lys Met Arg Ser Glu Thr Ala Ile Phe Ile Thr Asn Leu Ala Val Ser Asp Leu Leu Phe Val Cys Thr Leu Pro Phe Lys Ile Phe Tyr Asn Phe Asn Arg His Trp Pro Phe Gly Asp Thr Leu Cys Lys Ile Ser Gly Thr Ala Phe Leu Thr Asn Ile Tyr Gly Ser Met Leu Phe Leu Thr Cys Ile Ser Val Asp Arg Phe Leu Ala Ile Val Tyr Pro Phe Arg Ser Arg Thr Ile Arg Thr Arg Arg Asn Ser Ala Ile Val Cys Ala Gly Val Trp Ile Leu Val Leu Ser Gly Gly Ile Ser Ala Ser Leu Phe Ser Thr Thr Asn Val Asn Asn Ala Thr Thr Cys Phe Glu Gly Phe Ser Lys Arg Val Trp Lys Thr Tyr Leu Ser Lys Ile Thr Ile Phe Ile Glu Val Val Gly Phe Ile Ile Pro Leu Ile Leu Asn Val Ser Cys Ser Ser Val Val Leu Arg Thr Leu Arg Lys Pro Ala Thr Leu Ser Gln Ile

Gly Thr Asn Lys Lys Val Leu Lys Met Ile Thr Val His Met Ala

Val Phe Val Val Cys Phe Val Pro Tyr Asn Ser Val Leu Phe Leu Tyr 260 265 270

Ala Leu Val Arg Ser Gln Ala Ile Thr Asn Cys Phe Leu Glu Arg Phe 275 280 285

Ala Lys Ile Met Tyr Pro Ile Thr Leu Cys Leu Ala Thr Leu Asn Cys 290 295 300

Cys Phe Asp Pro Phe Ile Tyr Tyr Phe Thr Leu Glu Ser Phe Gln Lys 305 310 315 320

Ser Phe Tyr Ile Asn Ala His Ile Arg Met Glu Ser Leu Phe Lys Thr 325 330 335

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Thr Phe 370

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Cys Val Ala Ile Tyr Ile Phe Thr Phe Thr Leu Lys Val Arg Asn Glu $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$

Thr Thr Thr Tyr Met Leu Asn Leu Ala Ile Ser Asp Leu Leu Phe Val

Phe Thr Leu Pro Phe Arg Ile Tyr Tyr Phe Val Val Arg Asn Trp Pro

Phe Gly Asp Val Leu Cys Lys Ile Ser Val Thr Leu Phe Tyr Thr Asn 85 90 95

Met Tyr Gly Ser Ile Leu Phe Leu Thr Cys Ile Ser Val Asp Arg Phe 100 105 110

Leu Ala Ile Val His Pro Phe Arg Ser Lys Thr Leu Arg Thr Lys Arg 115 120 125

Asn Ala Arg Ile Val Cys Val Ala Val Trp Ile Thr Val Leu Ala Gly 130 135

Ser Thr Pro Ala Ser Phe Phe Gln Ser Thr Asn Arg Gln Asn Asn Thr 145 150 155 160

Glu Gln Arg Thr Cys Phe Glu Asn Phe Pro Glu Ser Thr Trp Lys Thr 165 170 175

Tyr Leu Ser Arg Ile Val Ile Phe Ile Glu Ile Val Gly Phe Phe Ile 180 185 190

Pro Leu Ile Leu Asn Val Thr Cys Ser Thr Met Val Leu Arg Thr Leu 195 200 205

Asn Lys Pro Leu Thr Leu Ser Arg Asn Lys Leu Ser Lys Lys Val 210 215 220

Leu Lys Met Ile Phe Val His Leu Val Ile Phe Cys Phe Cys Phe Val 225 230 235 240

Pro Tyr Asn Ile Thr Leu Ile Leu Tyr Ser Leu Met Arg Thr Gln Thr 245 250 255

Trp Ile Asn Cys Ser Val Val Thr Ala Val Arg Thr Met Tyr Pro Val 260 265 270

Thr Leu Cys Ile Ala Val Ser Asn Cys Cys Phe Asp Pro Ile Val Tyr 275 280 285

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<213> Homo sapiens

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Val Ser Asn Cys Val Ala Ile Tyr Ile Phe Ile Cys Val Leu Lys Val 35 40 45

Arg Asn Glu Thr Thr Thr Tyr Met Ile Asn Leu Ala Met Ser Asp Leu 50 55 60

Leu Phe Val Phe Thr Leu Pro Phe Arg Ile Phe Tyr Phe Thr Thr Arg 65 70 75 80

Asn Trp Pro Phe Gly Asp Leu Leu Cys Lys Ile Ser Val Met Leu Phe 85 90 95

Tyr Thr Asn Met Tyr Gly Ser Ile Leu Phe Leu Thr Cys. Ile Ser Val 100 105 110

Asp Arg Phe Leu Ala Ile Val Tyr Pro Phe Lys Ser Lys Thr Leu Arg 115 120 125

Thr Lys Arg Asn Ala Lys Ile Val Cys Thr Gly Val Trp Leu Thr Val 130 135 140

Ile Gly Gly Ser Ala Pro Ala Val Phe Val Gln Ser Thr His Ser Gln 145 150 155 160

Gly Asn Asn Ala Ser Glu Ala Cys Phe Glu Asn Phe Pro Glu Ala Thr 165 170 175

Trp Lys Thr Tyr Leu Ser Arg Ile Val Ile Phe Ile Glu Ile Val Gly
180 185 190

Phe Phe Ile Pro Leu Ile Leu Asn Val Thr Cys Ser Ser Met Val Leu 195 200 205

Lys Thr Leu Thr Lys Pro Val Thr Leu Ser Arg Ser Lys Ile Asn Lys 210 215 220

Thr Lys Val Leu Lys Met Ile Phe Val His Leu Ile Ile Phe Cys Phe 225 230 235 240

Cys Phe Val Pro Tyr Asn Ile Asn Leu Ile Leu Tyr Ser Leu Val Arg $245 \hspace{1.5cm} 250 \hspace{1.5cm} 255$

Thr Gln Thr Phe Val Asn Cys Ser Val Val Ala Ala Val Arg Thr Met $260 \\ \hspace{1.5cm} 265 \\ \hspace{1.5cm} 270 \\ \hspace{1.5cm}$

Tyr Pro Ile Thr Leu Cys Ile Ala Val Ser Asn Cys Cys Phe Asp Pro 275 280 285

Ile Val Tyr Tyr Phe Thr Ser Asp Thr Ile Gln Asn Ser Ile Lys Met 290 295 . 300

Lys Asn Trp Ser Val Arg Arg Ser Asp Phe Arg Phe Ser Glu Val His 305 310 315 320

Gly Ala Glu Asn Phe Ile Gln His Asn Leu Gln Thr Leu Lys Ser Lys 325 330 335

Ile Phe Asp Asn Glu Ser Ala Ala 340

<210> 14

<211> 339

<212> PRT

<213> Homo sapiens

<400> 14

Met Asn Gly Leu Glu Val Ala Pro Pro Gly Leu Ile Thr Asn Phe Ser 1 10 15

Leu Ala Thr Ala Glu Gln Cys Gly Gln Glu Thr Pro Leu Glu Asn Met 20 25 30

Leu Phe Ala Ser Phe Tyr Leu Leu Asp Phe Ile Leu Ala Leu Val Gly Asn Thr Leu Ala Leu Trp Leu Phe Ile Arg Asp His Lys Ser Gly Thr Pro Ala Asn Val Phe Leu Met His Leu Ala Val Ala Asp Leu Ser Cys Val Leu Val Leu Pro Thr Arg Leu Val Tyr His Phe Ser Gly Asn His Trp Pro Phe Gly Glu Ile Ala Cys Arg Leu Thr Gly Phe Leu Phe Tyr Leu Asn Met Tyr Ala Ser Ile Tyr Phe Leu Thr Cys Ile Ser Ala Asp Arg Phe Leu Ala Ile Val His Pro Val Lys Ser Leu Lys Leu Arg Arg Pro Leu Tyr Ala His Leu Ala Cys Ala Phe Leu Trp Val Val Ala Val Ala Met Ala Pro Leu Leu Val Ser Pro Gln Thr Val Gln Thr Asn His Thr Val Val Cys Leu Gln Leu Tyr Arg Glu Lys Ala Ser His His Ala Leu Val Ser Leu Ala Val Ala Phe Thr Phe Pro Phe Ile Thr Thr Val Thr Cys Tyr Leu Leu Ile Ile Arg Ser Leu Arg Gln Gly Leu Arg Val Glu Lys Arg Leu Lys Thr Lys Ala Val Arg Met Ile Ala Ile Val Leu Ala Ile Phe Leu Val Cys Phe Val Pro Tyr His Val Asn Arg Ser

Val Tyr Val Leu His Tyr Arg Ser His Gly Ala Ser Cys Ala Thr Gln 260 265 270

Arg Ile Leu Ala Leu Ala Asn Arg Ile Thr Ser Cys Leu Thr Ser Leu 275 280 285

Asn Gly Ala Leu Asp Pro Ile Met Tyr Phe Phe Val Ala Glu Lys Phe 290 295 300

Arg His Ala Leu Cys Asn Leu Leu Cys Gly Lys Arg Leu Lys Gly Pro 305 310 315 320

Pro Pro Ser Phe Glu Gly Lys Thr Asn Glu Ser Ser Leu Ser Ala Lys 325 330 335

Ser Glu Leu

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<211> 361

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Met Thr Ser Ala Glu Ser Leu Leu Phe Thr Ser Leu Gly Pro Ser Pro 1 5 10 15

Ser Ser Gly Asp Gly Asp Cys Arg Phe Asn Glu Glu Phe Lys Phe Ile 20 25 30

Leu Leu Pro Met Ser Tyr Ala Val Val Phe Val Leu Gly Leu Ala Leu $35 \hspace{1cm} 40 \hspace{1cm} 45$

Asn Ala Pro Thr Leu Trp Leu Phe Leu Phe Arg Leu Arg Pro Trp Asp 50 55 60

Ala Thr Ala Thr Tyr Met Phe His Leu Ala Leu Ser Asp Thr Leu Tyr 65 70 75 80

Val Leu Ser Leu Pro Thr Leu Val Tyr Tyr Ala Ala Arg Asn His
85 90 95

Trp Pro Phe Gly Thr Gly Leu Cys Lys Phe Val Arg Phe Leu Phe Tyr

100 105 110

Trp	Asn	Leu 115	Tyr	Cys	Ser	Leu 120	Phe	Leu	Thr	Cys	Ile 125	Ser	Val	His

- Arg Tyr Leu Gly Ile Cys His Pro Leu Arg Ala Ile Arg Trp Gly Arg 130 135 140
- Pro Arg Phe Ala Ser Leu Leu Cys Leu Gly Val Trp Leu Val Val Ala 145 150 155 160
- Gly Cys Leu Val Pro Asn Leu Phe Phe Val Thr Thr Asn Ala Asn Gly 165 170 175
- Thr Thr Ile Leu Cys His Asp Thr Thr Leu Pro Glu Glu Phe Asp His 180 185 190
- Tyr Val Tyr Phe Ser Ser Ala Val Met Val Leu Leu Phe Gly Leu Pro 195 200 205
- Phe Leu Ile Thr Leu Val Cys Tyr Gly Leu Met Ala Arg Arg Leu Tyr 210 215 220
- Arg Pro Leu Pro Gly Ala Gly Gln Ser Ser Ser Arg Leu Arg Ser Leu 225 230 235 240
- Arg Thr Ile Ala Val Val Leu Thr Val Phe Ala Val Cys Phe Val Pro 245 250 255
- Phe His Ile Thr Arg Thr Ile Tyr Tyr Gln Ala Arg Leu Leu Gln Ala 260 265 270
- Asp Cys His Val Leu Asn Ile Val Asn Val Val Tyr Lys Val Thr Arg 275 280 285
- Pro Leu Ala Ser Ala Asn Ser Cys Leu Asp Pro Val Leu Tyr Leu Phe 290 295 300
- Thr Gly Asp Lys Tyr Arg Asn Gln Leu Gln Gln Leu Cys Arg Gly Ser 305 310 315 320
- Lys Pro Lys Pro Arg Thr Ala Ala Ser Ser Leu Ala Leu Val Thr Leu 325 330 335

His Glu Glu Ser Ile Ser Arg Trp Ala Asp Thr His Gln Asp Ser Thr 340 345 350

Phe Ser Ala Tyr Glu Gly Asp Arg Leu 355 360

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Thr Ala Trp Pro Ser Ala Ala Asn Ala Ser Ser Ala Pro Ala Glu Ala 20 25 30

Glu Glu Ala Val Ala Gly Pro Gly Asp Ala Arg Ala Ala Gly Met Val 35 40 45

Ala Ile Gln Cys Ile Tyr Ala Leu Val Cys Leu Val Gly Leu Val Gly 50 55 60

Asn Ala Leu Val Ile Phe Val Ile Leu Arg Tyr Ala Lys Met Lys Thr 65 70 75 80

Ala Thr Asn Ile Tyr Leu Leu Asn Leu Ala Val Ala Asp Glu Leu Phe 85 90 95

Met Leu Ser Val Pro Phe Val Ala Ser Ser Ala Ala Leu Arg His Trp 100 105 110

Pro Phe Gly Ser Val Leu Cys Arg Ala Val Leu Ser Val Asp Gly Leu 115 120 125

Asn Met Phe Thr Ser Val Phe Cys Leu Thr Val Leu Ser Val Asp Arg 130 135 140

Tyr Val Ala Val Val His Pro Leu Arg Ala Ala Thr Tyr Arg Arg Pro 145 150 155 160

Ser Val Ala Lys Leu Ile Asn Leu Gly Val Trp Leu Ala Ser Leu Leu Val Thr Leu Pro Ile Ala Ile Phe Ala Asp Thr Arg Pro Ala Arg Gly Gly Gln Ala Val Ala Cys Asn Leu Gln Trp Pro His Pro Ala Trp Ser Ala Val Phe Val Val Tyr Thr Phe Leu Leu Gly Phe Leu Leu Pro Val Leu Ala Ile Gly Leu Cys Tyr Leu Leu Ile Val Gly Lys Met Arg Ala Val Ala Leu Arg Ala Gly Trp Gln Gln Arg Arg Arg Ser Glu Lys Lys Ile Thr Arg Leu Val Leu Met Val Val Val Phe Val Leu Cys Trp Met Pro Phe Tyr Val Val Gln Leu Leu Asn Leu Val Val Thr Ser Leu Asp Ala Thr Val Asn His Val Ser Leu Ile Leu Ser Tyr Ala Asn Ser Cys Ala Asn Pro Ile Leu Tyr Gly Phe Leu Ser Asp Asn Phe Arg Arg Ser Phe Gln Arg Val Leu Cys Leu Arg Cys Cys Leu Leu Glu Gly Ala Gly Gly Ala Glu Glu Pro Leu Asp Tyr Tyr Ala Thr Ala Leu Lys Ser Lys Gly Gly Ala Gly Cys Met Cys Pro Pro Leu Pro Cys Gln Gln Glu Ala Leu Gln Pro Glu Pro Gly Arg Lys Arg Ile Pro Leu Thr Arg

Thr Thr Thr Phe

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Phe Pro His Lys Leu Trp Val Leu Pro Val Lys Thr

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aageee	igga ticitigatiga taatiitacg aatogg	50
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<221>
<222>
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      (12)...(12)
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      (21)..(21)
<223> n is a, c, g, or t
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<222> (25)..(27)
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      (36)..(36)
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<223> This codon may be replaced by AGY
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aaygcnaarg tntggacngt nccntcnaar ccnccn
                                                                      36
<210> 83
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      36
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<223> n is a, c, g, or t
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<222>
      (18)..(18)
<223>
      n is a, c, g, or t
<220>
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<222>
      (19)..(21)
<223>
      This codon may be replaced by AGY
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<221> misc_feature
<222> (24)..(24)
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<221> misc feature
<222>
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<223> This codon may be replaced by TTR
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      misc feature
<222>
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aargtntgga thccnacntc nacntggctn caracn
                                                                      36
<210>
      84
<211>
      36
<212>
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      This codon may be replaced by AGN
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      (22)..(24)
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aargtntggt cnctngayat htcngcnccn carcay
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       n is a, c, g, or t
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      (10)..(12)
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       This codon may be replaced by TTR
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<221> misc_feature
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<223> n is a, c, g, or t
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      (24)..(24)
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      n is a, c, g, or t
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      This codon may be replaced by AGY
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<223> This codon may be replaced by TTR
<400> 85
                                                                      45
gengaygtne theaygenae neentengar aargtntgge theth
<210> 86
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<212> DNA
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<222> (13)..(15)
<223> This codon may be replaced by AGY
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<223> n is a, c, g, or t
<220>
<221> misc feature
<222> (31)..(33)
<223> This codon may be replaced by TTR
<220>
<221> misc feature
<222>
      (36)..(36)
<223> n is a, c, g, or t
<220>
<221> misc_feature
<222>
      (37)..(39)
<223> This codon may be replaced by AGY
<220>
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45
aargtngtng aytcnaayca yaargtntgg ctngtntcnc aracn
<210> 87
<211> 36
<212> DNA
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<220>
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      (31)..(33)
<223> This codon may be replaced by TTR
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<400> 87
aaycaygaya ayacnaaraa rgtntggath ctngcn
                                                                      36
<210> 88
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<400> 86

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<400> 88
aarctnttrt ggathctngc ngayaaytty acnaaycgn
                                                                      39
<210> 89
<211>
      45
<212>
      DNA
<213>
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<223>
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      misc feature
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      (37)..(39)
<223> This codon may be replaced by TTR
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<223> n is a, c, g, or t
<400> 89
athaaytcnc encaygaret naaraaretn tggetnetne encen
                                                                      45
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       90
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      (13)..(15)
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<400> 90
ttyccncaya arctntgggt nctnccngtn aaracn
                                                                       36
<210> 91
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<223> n is a, c, g, or t
<220>
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<222> (36)..(36)
<223> n is a, c, g, or t
<400> 91
aarctntgga cnathcente naaygaytay cencen
                                                                       36
<210> 92
<211> 36
<212>
      DNA
<213>
      Artificial
<220>
<223> oligonucleotide
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<223> n is a, c, g, or t
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<223> n is a, c, g, or t
<400> 92
aarctntggg arctntaycc nacngtnccn gcnggn
                                                                     36
<210>
      93
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      (21)..(21)
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aarctntgga thccncayac ntcncarccn ttyctn
                                                                      36
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       94
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<223>
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      (18)..(18)
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<223> n is a, c, g, or t
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                                                                         36
aarctntggg ayathacngc nccnctnccn aarccn
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<222>
      (33)..(33)
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<400> 95
aaygcnaarc tntggcarat hccngcnath ccncay
                                                                        36
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      n is a, c, g, or t
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<223> n is a, c, g, or t
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      (22)..(24)
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aarctntggg tnccncaraa ycgnccngar ctngtn
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      36
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       (13)..(15)
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      (21)..(21)
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      (24)..(24)
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      n is a, c, g, or t
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<223> n is a, c, g, or t
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      (36)..(36)
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      n is a, c, g, or t
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aarctntggg arctntaycc nacngtnccn gcnggn
                                                                       36
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       98
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       36
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<222> (3)..(3)
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<221> misc_feature
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      (36)..(36)
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      98
acntenaene encayegngt ntggearetn cengtn
                                                                       36
<210> 99
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      (9)..(9)
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      (13)..(15)
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      (31)..(33)
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      This codon may be replaced by TTR
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<221> misc_feature
<222> (39)..(39)
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<400> 99
                                                                      45
acnaencene ayegngtntg gaayetneen etngargene arear
<210> 100
<211> 45
<212>
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<213>
      Artificial
<220>
<223> oligonucleotide
<400> 100
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<210> <211> <212> <213>	101 45 DNA Artificial	
<220> <223>	oligonucleotide	
<400> agtagg	101 gtgt ctggtgcgaa ggtttggttt ttgagtaatt ggtct	45
<210> <211> <212> <213>	102 36 DNA Artificial	
<220> <223>	oligonucleotide	
<400> gctatg	102 aata gtcataagat ttggatgttg ccgcat	36
<210><211><211><212><213>	103 36 DNA Artificial	
<220> <223>	oligonucleotide	
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<210><211><211><212><213>	104 36 DNA Artificial	
<220> <223>	oligonucleotide	
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<210> <211> <212> <213>	105 45 DNA Artificial	
<220>		

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<223> oligonucleotide
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      misc_feature
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      (3)..(3)
<223> n is a, c, g, or t
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      n is a, c, g, or t
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      This codon may be replaced by AGY
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      This codon may be replaced by TTR
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acneayggnt tyggneayeg ngtntggten gtneenetne gnten
<210> 106
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     (31)..(33)
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45

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tenegngtht enggngenaa rgthtggtty ethtenaayt ggten
                                                                          45
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<223> n is a, c, g, or t
<400> 107
gcnatgaayt cncayaarat htggatgctn ccncay
                                                                          36
<210> 108
<211> 36
<212> DNA
<213> Artificial
<220>
<223> oligonucleotide
<220>
<221> misc feature
<222> (3)..(3)
<223> n is a, c, g, or t
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<222>
      (4)..(6)
<223>
      This codon may be replaced by TTR
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      (16)..(18)
<223>
      This codon may be replaced by AGY
<220>
<221>
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      (19)..(21)
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      (24)..(24)
<223>
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<220>
<221> misc_feature
<222> (27)..(27)
<223> n is a, c, g, or t
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<221> misc_feature
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      (36)..(36)
<223> n is a, c, g, or t
<400> 108
                                                                      36
ggnctnaara thtggtcnct nccnccncay cayggn
<210> 109
<211> 36
<212> DNA
<213> Artificial
<220>
<223>
      oligonucleotide
<220>
<221>
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<223>
      n is a, c, g, or t
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      (18)..(18)
<223> n is a, c, g, or t
<220>
<221>
      misc_feature
<222>
      (21)..(21)
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<223> n is a, c, g, or t
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      (24)..(24)
<223>
      n is a, c, g, or t
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<221>
      misc feature
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      (27)..(27)
<223> n is a, c, g, or t
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      misc_feature
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      (30)..(30)
<223>
      n is a, c, g, or t
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      misc_feature
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      (34)..(36)
      This codon may be replaced by AGY
<223>
<400> 109
aargtntggc aratggcncc nacnacngcn ttytcn
<210> 110
<211>
      330
<212>
      PRT
<213>
      Homo sapiens
<400> 110
Met Glu Pro Asn Gly Thr Phe Ser Asn Asn Ser Arg Asn Cys Thr
                5
                                    10
Ile Glu Asn Phe Lys Arg Glu Phe Phe Pro Ile Val Tyr Leu Ile Ile
            20
Phe Phe Trp Gly Val Leu Gly Asn Gly Leu Ser Ile Tyr Val Phe Leu
        35
                            40
Gln Pro Tyr Lys Lys Ser Thr Ser Val Asn Val Phe Met Leu Asn Leu
    50
Ala Ile Ser Asp Leu Leu Phe Ile Ser Thr Leu Pro Phe Arg Ala Asp
Tyr Tyr Leu Arg Gly Ser Asn Trp Ile Phe Gly Asp Leu Ala Cys Arg
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36

85

Ile Met Ser Tyr Ser Leu Tyr Val Asn Met Tyr Ser Ser Ile Tyr Phe 100 105 110 Leu Thr Val Leu Ser Val Val Arg Phe Leu Ala Met Val His Pro Phe 115 120 125 Arg Leu Leu His Val Thr Ser Ile Arg Ser Ala Trp Ile Leu Cys Gly 130 135 140 Ile Ile Trp Ile Leu Ile Met Ala Ser Ser Ile Met Leu Leu Asp Ser Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys Leu Glu Leu Asn Leu 170 Tyr Lys Ile Ala Lys Leu Gln Thr Met Asn Tyr Ile Ala Leu Val Val 185 Gly Cys Leu Leu Pro Phe Phe Thr Leu Ser Ile Cys Tyr Leu Leu Ile 200 Ile Arg Val Leu Leu Lys Val Glu Val Pro Glu Ser Gly Leu Arg Val 210 Ser His Arg Lys Ala Leu Thr Thr Ile Ile Ile Thr Leu Ile Ile Phe 230 235 Phe Leu Cys Phe Leu Pro Tyr His Thr Leu Arg Thr Val His Leu Thr 250 Thr Trp Lys Val Gly Leu Cys Lys Asp Arg Leu His Lys Ala Leu Val Ile Thr Leu Ala Leu Ala Ala Ala Asn Ala Cys Phe Asn Pro Leu Leu Tyr Tyr Phe Ala Gly Glu Asn Phe Lys Asp Arg Leu Lys Ser Ala Leu Arg Lys Gly His Pro Gln Lys Ala Lys Thr Lys Cys Val Phe Pro Val 310 315

Ser Val Trp Leu Arg Lys Glu Thr Arg Val

325 330

<210> 111

<211> 337

<212> PRT

<213> Homo sapiens

<400> 111

Met Asn Glu Pro Leu Asp Tyr Leu Ala Asn Ala Ser Asp Phe Pro Asp 1 5 10 15

Tyr Ala Ala Ala Phe Gly Asn Cys Thr Asp Glu Asn Ile Pro Leu Lys 20 25 30

Met His Tyr Leu Pro Val Ile Tyr Gly Ile Ile Phe Leu Val Gly Phe 35 40 45

Pro Gly Asn Ala Val Val Ile Ser Thr Tyr Ile Phe Lys Met Arg Pro 50 55 60

Trp Lys Ser Ser Thr Ile Ile Met Leu Asn Leu Ala Cys Thr Asp Leu 65 70 75 80

Leu Tyr Leu Thr Ser Leu Pro Phe Leu Ile His Tyr Tyr Ala Ser Gly 85 90 95

Glu Asn Trp Ile Phe Gly Asp Phe Met Cys Lys Phe Ile Arg Phe Ser 100 105 110

Phe His Phe Asn Leu Tyr Ser Ser Ile Leu Phe Leu Thr Cys Phe Ser 115 120 125

Ile Phe Arg Tyr Cys Val Ile Ile His Pro Met Ser Cys Phe Ser Ile 130 135 140

His Lys Thr Arg Cys Ala Val Val Ala Cys Ala Val Val Trp Ile Ile 145 150 155 160

Ser Leu Val Ala Val Ile Pro Met Thr Phe Leu Ile Thr Ser Thr Asn 165 170 175

Arg Thr Asn Arg Ser Ala Cys Leu Asp Leu Thr Ser Ser Asp Glu Leu 180 185 190 Asn Thr Ile Lys Trp Tyr Asn Leu Ile Leu Thr Ala Thr Thr Phe Cys 195 200 205

Leu Pro Leu Val Ile Val Thr Leu Cys Tyr Thr Thr Ile Ile His Thr 210 215 220

Leu Thr His Gly Leu Gln Thr Asp Ser Cys Leu Lys Gln Lys Ala Arg 225 230 235 240

Arg Leu Thr Ile Leu Leu Leu Leu Ala Phe Tyr Val Cys Phe Leu Pro 245 250 255

Phe His Ile Leu Arg Val Ile Arg Ile Glu Ser Arg Leu Leu Ser Ile 260 265 270

Ser Cys Ser Ile Glu Asn Gln Ile His Glu Ala Tyr Ile Val Ser Arg 275 280 285

Pro Leu Ala Ala Leu Asn Thr Phe Gly Asn Leu Leu Tyr Val Val 290 295 300

Val Ser Asp Asn Phe Gln Gln Ala Val Cys Ser Thr Val Arg Cys Lys 305 310 315 320

Val Ser Gly Asn Leu Glu Gln Ala Lys Lys Ile Ser Tyr Ser Asn Asn 325 330 335

Pro

<210> 112

<211> 339

<212> PRT

<213> Homo sapiens

<400> 112

Ser Thr Ser Thr Ala Glu Ile Tyr Cys Asn Val Thr Asn Val Lys Phe 20 25 30

Gln Tyr Ser Leu Tyr Ala Thr Thr Tyr Ile Leu Ile Phe Ile Pro Gly

35 40 45

- Leu Leu Ala Asn Ser Ala Ala Leu Trp Val Leu Cys Arg Phe Ile Ser 50 55 60
- Lys Lys Asn Lys Ala Ile Ile Phe Met Ile Asn Leu Ser Val Ala Asp 65 . 70 . 75 . 80
- Leu Ala His Val Leu Ser Leu Pro Leu Arg Ile Tyr Tyr Ile Ser 85 90 95
- His His Trp Pro Phe Gln Arg Ala Leu Cys Leu Leu Cys Phe Tyr Leu 100 105 110
- Lys Tyr Leu Asn Met Tyr Ala Ser Ile Cys Phe Leu Thr Cys Ile Ser 115 120 125
- Leu Gln Arg Cys Phe Phe Leu Leu Lys Pro Phe Arg Ala Arg Asp Trp 130 135 140
- Lys Arg Arg Tyr Asp Val Gly Ile Ser Ala Ala Ile Trp Ile Val Val 145 150 155 160
- Gly Thr Ala Cys Leu Pro Phe Pro Ile Leu Arg Ser Thr Asp Leu Asn 165 170 175
- Asn Asn Lys Ser Cys Phe Ala Asp Leu Gly Tyr Lys Gln Met Asn Ala 180 185 190
- Val Ala Leu Val Gly Met Ile Thr Val Ala Glu Leu Ala Gly Phe Val 195 200 205
- Ile Pro Val Ile Ile Ile Ala Trp Cys Thr Trp Lys Thr Thr Ile Ser 210 215 220
- Leu Arg Gln Pro Pro Met Ala Phe Gln Gly Ile Ser Glu Arg Gln Lys 225 230 235 240
- Ala Leu Arg Met Val Phe Met Cys Ala Ala Val Phe Phe Ile Cys Phe 245 250 255
- Thr Pro Tyr His Ile Asn Phe Ile Phe Tyr Thr Met Val Lys Glu Thr 260 265 270

Ile Ile Ser Ser Cys Pro Val Val Arg Ile Ala Leu Tyr Phe His Pro 275 280 285

Phe Cys Leu Cys Leu Ala Ser Leu Cys Cys Leu Leu Asp Pro Ile Leu 290 295 300

Tyr Tyr Phe Met Ala Ser Glu Phe Arg Asp Gln Leu Ser Arg His Gly 305 310 315 320

Ser Ser Val Thr Arg Ser Arg Leu Met Ser Lys Glu Ser Gly Ser Ser 325 330 335

Met Ile Gly